AL'BITSKAYA, O. P.; KRAFT, M. YA.; and MOROZOVA, A. S.

Polymeric Arsenic Compounds. III. Preparation of Various Polymer Homologues of Salvarsan by Reduction of 3-Nitro (or Amino) -4- Hydroxyphenyl Arsinic Acid with Sodium Hydrosulfite, page 1360, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

All-Union Sci Res Chemico-Pharmaceutical Inst imeni S. Ordzhonikidze

USSR/Chemistry - Acetylene Derivatives May 52

"Conversion of Secondary-Tertiary d -Glycols of Acetylene Series by Means of Mercury Salts, I. 1,2,4-Triphenyl-Buty-3-Diol-1,2," E. D. Venus-Denilova, V. M. Al'bitskaya, Lab of Org Chem, Leningrad Technological Inst im Lensovet

Zhur Obshch Khim, Vol 22, No 5, pp 816-821

The action of mercuric chloride on diphenyl-phenylacetylenyl-ethylene glycol at 100° results in an 88.6% yield of 2,3,5-triphenyl furane.

263T30

VENUS-DANILOVA, Ye.D.; AL'BITSKAYA, V.M.

Transformations of secondary-tertiary acetylenic α-glycols under the action of salts of mercury. II. 3-Methyl-5-phenyl-4-pentyn-2,3-diol. Zhur. Obshchey Khim. 22, 1568-72 '52. (MLRA 5:9)
(CA 47 no.17:8683 '53)

1. Lensovet Technol. Inst., Leningrad.

AL'BITSKAYA, V. M.

Chem

5
(3)

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Organic Chemistry

Transformations of secondary-tertiary glycols of the acetylene series under the influence of mercury salts. I. 1,3,4-Triphenyl-3-butyne-1,2-diol. E. D. Venus-Danilova and V. M. Al'bitskaya (Lensoviet Inst. Technol., Leningrad). *J. Gen. Chem. U.S.S.R.* 22, 879–82(1952)(Engl. translation).—See *C.A.* 47, 3266c. H. L. H.

1-27-54

AL'BITSKAYA, V. M.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Organic Chemistry

(2) 4

Transformations of secondary-tertiary acetylenic glycols under the action of salts of mercury. II. 3-Methyl-5-phenyl-4-pentyn-2,3-diol. R. D. Venus-Danilova and V. M. Al'bitskaya. *J. Gen. Chem.* (U.S.S.R.) 22, 1011–14(1952)(Engl. translation).—See *C.A.* 47, 8083f.
H. L. H.

MF
11-5-54

AL'BITSKAYA, V. M.

USSR/ Organic Chemistry - Synthetic organic chemistry E-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11652

Author : Petrov A.A., Al'bitskaya V.M.
Title : On Interaction of Divinyl Oxide with Amines

Orig Pub : Zh. ogshch. khimii, 1956, 26, No 7, 1907-1909

Abstract : Reaction of divinyl oxide with primary and secondary amines takes place according to Markovnikov's rule with formation of alkylaminobutenols $CH_2=CHCHOHCH_2NRR^1$ (I). Addition is promoted in alkaline media. To an excess of aqueous, 35-40% solution of amine the divinyl oxide is added dropwise, while stirring. After 8-10 hours treated with K_2CO_3 and I isolated by distillation. Prepared were the following I (listing R, R^1, yield in %, BP in °C/20 mm, $n^{20}D$, d_4^{20}, MP of picrolonate in °C): H, CH_3, 65, 80.5-81. 1.4608, 0.9282, 192-193; H, C_2H_5, 72, 86-87, 1.4570, 0.9114, 211-212 (decomposes); H, C_3H_7, 83, 95-96,

Card 1/2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11652

1.4580, 0.8991, 179-180; H, iso-C_3H_7, 80, 89-94/21 mmm 1.4508 (25°), -, -; H, C_4H_9, 82, 108-109, 1.4588, 0.8906, 181-182. Prepared were I (R=R^1): CH_3, 78, 57.5-58.5, 1.4508, 0.8939, 95-96; C_2H_5, 84, 76.5 and 71-72°/19 mm, 1.4470, 0.8705, 109; C_3H_7, 66, 101, 1.4480, 0.8598, 81-82; C_4H_9, 86, 127, 1.4508, 0.8560, 98-99.

AUTHORS: Al'bitskaya, V. M., Petrov, A. A. 79-28-4-11/60

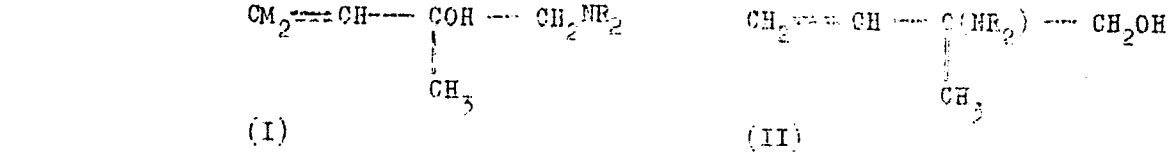
TITLE: Investigations in the Field of the Chemistry of Organic Oxides (Issledovaniya v oblasti khimii organicheskikh okisey). XIV. On the Interaction of the Isoprene α-Oxide With Ammonia and Amines (O vzaimodeystvii α-okisi izoprena s ammiakom i aminami)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 901-904 (USSR)

ABSTRACT: In the present paper the authors describe the results of the investigation of the interaction of the isoprene α-oxide (1,2 epoxy-2-methylbutene-3) with ammonia and amines. By the addition of 4 primary (from methyl- to butylamine) and by the addition of 4 secondary amines (from dimethylamine to di-butylamine) to ammonia-isoprenoxide 9 amino alcohols were produced, the constants of which are given in a table. When the constants of these substances were compared with those of the amino alcohols, which were produced under analogous conditions from divinyloxide, the considerably lower boiling temperatures of the latter spring to the eye in spite of the fact that they have an excess methyl group. All produced

Card 1/3

amino alcohols form well crystallizing picronolates. Their melting points are linearly decreasing in the homologous series (see table). In the addition of ammonia and of amines to the isoprene α-oxide the formation of two isomeric amino alcohols with primary and tertiary oxygroups was to be expected in any case



(I) (II)

The authors performed an experiment with a considerably increased amount of the initial substances in order to discover still other possible isomers of amino alcohols. From the distillation of the reaction products another amino alcohol with a higher boiling temperature was separated apart from the amino alcohol given in the table. It's yield amounted to about 10-12% of the mixture. A comparison of the infrared

 spectra of these amino alcohols leaves no doubt that these

Investigations in the Field of the Chemistry of Organic Oxides. XIV. On the Interaction of the Isoprene α-Oxide With Ammonia and Amines

79-28-4-11/60

two possess a vinyl group. 10 unsaturated amino alcohols were produced and described. There are 1 table and 4 references, 4 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

SUBMITTED: April 4, 1957

Card 3/3

5 (3)

AUTHORS: Al'bitskaya, V. M., Blyakhman, Ye. M., Petrov, A. A., Yakovleva, T. V.

SOV/79-29-7-38/63

TITLE: Investigations in the Field of Conjugate Systems (Issledovaniya v oblasti sopryazhennykh sistem). CI. Oxidation of Vinyl Alkyl Acetylenes With Benzoyl Hydroperoxide (CI. Okisleniye vinilalkilatsetilenov gidroperekis'yu benzoila)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2278-2281 (USSR)

ABSTRACT: In the papers of some authors (Refs 1, 2) it was shown that in the case of oxidation of vinyl acetylene hydrocarbons with hydroperoxides the affiliation of oxygen first takes place to the ethylene bond under formation of acetylene monoxides only. In the above papers only compound vinyl acetylenes or diene hydrocarbons were used but no simple ones. The authors tried to oxidize the vinyl ethyl- and vinyl butyl acetylene with benzoyl hydroperoxide in the work under review. Thus it was interesting to find that the authors had great difficulties in experimenting the production of pure oxides of superior vinyl alkyl acetylenes by bromhydrins, because the poor solubility of bromhydrins in water did not permit the separation of the latter from dibromides by means of extraction with water. In the case

of oxidation of both hydrocarbons acetylene oxides were obtained. The vinyl ethyl acetylene oxide was, according to its constants, nearly equal to the oxide of the same hydrocarbon which was obtained earlier by means of bromhydrin (Ref 3). To get more certainty about this infra-red spectra of both vinyl acetylene oxides were taken. The analysis of the data obtained showed that in both cases acetylene compounds exist. The spectrum of the oxide obtained by oxidation of the hydrocarbon differed from the same oxide that was obtained over bromhydrin, only by the presence of the band at 1728 cm^{-1} of mean intensity (Figure). This frequency also appears in the spectrum of the diene oxides which are obtained in the same way. On the whole the spectra of the vinyl butyl acetylene and the vinyl ethyl acetylene are similar. On the basis of the results of the spectroscopic investigation it was shown that in the case of vinyl ethyl acetylene the affiliation of oxygen at the oxidation with benzoyl hydroperoxide first and only takes place on the ethylene bond. In the case of vinyl butyl acetylene it can be said with reservation only, that this orientation predominates. There are 1 figure and 7 references,

Investigations in the Field of Conjugate Systems. SOV/79-29-7-38/83
CI. Oxidation of Vinyl Alkyl Acetylenes With Benzoyl Hydroperoxide

4 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta
(Leningrad Technological Institute imeni Lensovet)

SUBMITTED: June 18, 1958

Card 3/3

AL'BITSKAYA, V.M., BLYAKHMAN, Ye.M.

Interaction between acetylenic oxides and amines. Trudy LTI no.58: 51-54 '59. (MIRA 13:7)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
(Hexyne) (Methylamine)

5.3400

77417
SOV/79-30-1-78/78

AUTHORS: Al'bitskaya, V. M., Venus-Danilova, E. D.

TITLE: Letter to the Editor. Isomerization of Secondary-Tertiary Acetylenic α-Glycol Into a Substituted β-Furan

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 349-350 USSR)

ABSTRACT: 3-Methyl-5-phenylpentyne-4-diol-2,3 (I) is converted, by heating-4-with 20-30% sulfuric acid, into 2,3-dimethyl-5-phenylfuran-4-one (III) in equilibrium with its enol form (II). The isomerization can be represented by the following scheme:

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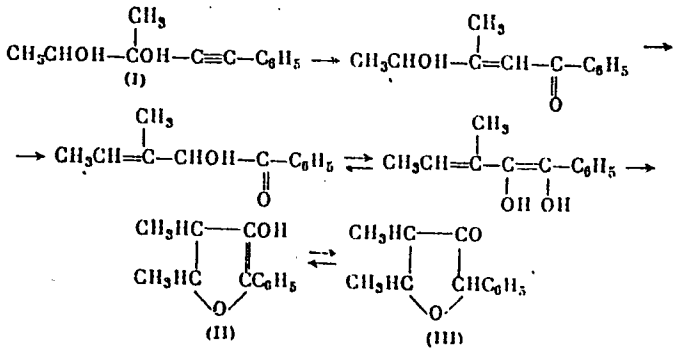
Letter to the Editor. Isomerization of Secondary-Tertiary Acetylenic α-Glycol Into a Substituted β-Furan

77417
SOV/79-30-1-78/78



(bp of the furan 138-138.5° (4mm); M 199.6, 188.9 (calculated 190); n_D^{20} 1.5360; 81% enol; its semicarbazone: mp 116-117°). Infrared spectrum of

Card 2/3

Letter to the Editor. Isomerization of Secondary-Tertiary Acetylenic α -Glycol Into a Substituted β -Furan

77417
SOV/79-30-1-78/78

furanone had the following absorption bands: carbonyl (1,709 cm^{-1}), double bond (1,623 cm^{-1}), ether oxygen in the tetrahydrofuran ring (1073 cm^{-1}), and hydroxyl (3,440 cm^{-1}) Use of Absorption Spectroscopy in Chemistry--Primeneniye spektroskopii v khimii--IL (1959). There are 3 Soviet references.

ASSOCIATION: Leningrad Lensoviet Technological Institute (Leningradskiy tekhnologicheskiy institut imeni Lensoveta)

SUBMITTED: October 3, 1959

Card 3/3

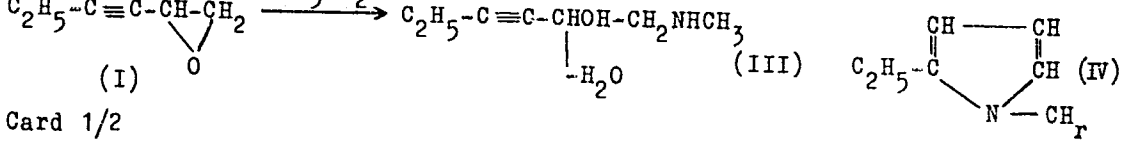
S/079/60/030/007/033/039/XX
B001/B066

AUTHORS: Al'bitskaya, V. M., Blyakhman, Ye. M., and Petrov, A. A.

TITLE: Investigations in the Field of Chemistry of Organic Oxides. XVII. Reaction of Primary-secondary Acetylene Oxides With Methyl Amine

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 7, pp. 2267-2269

TEXT: Taking into account the papers of Refs. 1-7 on the fundamental laws of the reactions of saturated α-oxides with amines and ammonia, the authors reacted the two acetylene oxides 1,2-epoxy hexine-3 (I) and 1,2-epoxy octine-3 (II) with methyl amine. Oxide (I) reacted with methyl amine to give a mixture of amino alcohol (III) and N-methyl-2-ethyl pyrrole (IV). When dehydrated with potassium hydroxide, the amino alcohol (III) gave N-methyl-2-ethyl pyrrole



Card 1/2

Investigations in the Field of Chemistry of Organic Oxides. XVII. Reaction of Primary-secondary Acetylene Oxides With Methyl Amine

S/079/60/030/007/033/039/XX
B001/B066

Reaction of oxide (II) with methyl amine gave only N-methyl-2-butyl pyrrole (V). The formation of substituted pyrroles indicates that the addition of the amine to the oxide ring takes place according to the rule of K. A. Krasuskiy. The homologs of pyrroles (IV) and (V) are colorless liquids of a characteristic odor, which color a pine chip moistened with hydrochloric acid red. With SeO_2 they turn violet. They form mercury derivatives and azo compounds. The infrared spectra of both products show absorption bands characteristic of pyrroles (Ref. 8). The experiments performed show that primary-secondary acetylene oxides reacting with amines behave like primary and secondary-tertiary acetylene oxides. F. Ya. Perveyev is mentioned. There are 9 references: 5 Soviet and 4 US.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

SUBMITTED: July 16, 1959

Card 2/2

AL'BITSKAYA, V.M.; BLYAKHMAN, Ye.M.; PETROV, A.A.

Chemistry of organic oxides. Part 18: Order of addition of alcohols to chloroprene oxide in the presence of alcoholates and boron fluoride etherate. Zhur.ob.khim. 30 no.8:2524-2527 Ag '60. (MIRA 13:8)

1. Leningradsiy tekhnologicheskiy institut imeni Lensoveta.
(Alcohols) (Butadiene)

BALAYEV, G.A.; AL'BITSKAYA, V.M.; PETROV, A.A.

Chemistry of organic oxides. Part 19: Reaction of chloroprene α-oxide with ammonia and amines. Zhur.ob.khim. 31 no.5:1524-1528 My '61. (MIRA14:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Chloroprene) (Ammonia) (Amines)

BALAYEV, G.A.; AL'BITSKAYA, V.M.; PETROV, A.A.

Chemistry of organic oxides. Part 20: Addition of ethyleneimine and ethanolamine to some alka-1, 3-diene oxides. Zhur.ob.khim. 31 no.6:1861-1869 Je '61. (MIRA 14:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Ethanol) (Ethylene oxide)

2442h

S/079/61/031/007/006/008
D229/D305

53400

AUTHORS: Al'bitskaya, V.M., Petrov, A.A., and Blyakhman, Ye.M.

TITLE: Investigation into the chemistry of organic oxides. XXI. Addition of phenol to butadiene, chloroprene and isoprene epoxides

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 7, 1961, 2166-2171

TEXT: Base catalyzed addition to unsymmetrical terminal epoxides takes place with orientation determined by A.K. Krasuskiy's rule [Abstractor's note: Rule not stated, reference not given]. Addition of phenol in alkaline medium to butadiene, isoprene and chloroprene epoxides gives mainly primary ethers of the resultant glycols. The content of primary ethers in the products varies for phenol and its halogen derivative in the region of 65 - 90 %, as tabulated. The greater amount of secondary ether in the addition of phenol and p. chlorophenol is due to the inductive effect of the chlo-

Card 1/3

Investigation into the ...

rine substituent, whereas the small amount of secondary ether arising from the addition of o-chlorophenol is due to steric hindrance. The composition of the mixture of isomeric phenyl ethers was determined by phtalylation, or reduction of double bond, and determination of primary alcohol content by phtalylation. The accuracy of this method was checked by a blank test on a known mixture of glycolic mono-ethers. Finally, the independently prepared model compounds were compared with the addition products as regards their infra-red spectra. The model compounds prepared were, 1-phenoxy-2-hydroxy butane, and, 1-hydroxy-2-phenoxy butane, and 1-phenoxy-2-hydroxy-2-methyl butane. The unsaturated epoxides were prepared by distillation of alkaline halogenhydrins. The reaction of phenol with epoxides took place in the following manner: 0.05 mole of phenol and 0.01 mole of Na dissolved in dioxan and 0.05 mole of epoxide was added. The mixture was refluxed for a given time, then dioxan was evaporated and the residue was distilled in vacuo. Results are tabulated. Hydrogenation of the addition products took place in methanol with $Pd/CaCO_3$ (about 1 mg. Pd/g) catalyst usu-

Card 2/3

Investigation into the ...

ally over three to five hours. The blank test of the phtalylation method was accurate to within 1 %. There are 1 figure, 2 tables, and 15 references: 7 Soviet-bloc and 8 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: A.R. Setton, E.C. Britton, J. Am. Chem. Soc., 70, 3601, 1948; C.O. Guss, J. Am. Chem. Soc., 71, 3460, 1949; C.O. Guss, H. Williams, J. Org. Chem., 16, 1809, 1951; C.O. Guss, L.H. Jules, J. Am. Chem. Soc., 72, 3878, 1950.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Technological Institute imeni Lensovet, Leningrad)

SUBMITTED: July 19, 1960

Card 3/3

VENUS-DANILOVA, E.D.; AL'BITSKAYA, V.M.; PRINTSEVA, Z.V.; VOROB'YEV, L.N.

Conversions of secondary-tertiary acetylenic α-glycols under the effect of sulfuric acid. Zhur.ob.khim. 32 no.7:2118-2122 Jl '62. (MIRA 15:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Glycols)

L 17950-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 ASD(a)-5 RM
ACCESSION NR: AP5002565 S/0079/64/034/007/2262/2267

AUTHOR: Sharikova, I Ye.; Al'bitskaya, V. M.; Petrov, A A.

TITLE: Investigations in the field of the chemistry of organic oxides. XXIII. Addition of methyldichlorosilane to divinyl and isoprene oxides

SOURCE: Zhurnal obshchey khimii, v. 34, no. 7, 1964, 2262-2267

TOPIC TAGS: organic oxide, silane compound, chemical bonding

Abstract: The addition of methyldichlorosilane to the oxides of divinyl (1, 2-epoxybutene-3) and isoprene (3-methyl-1, 2-epoxybutene-3) was studied. The reaction proceeded soomthly in both cases, addition occurring only at the Si-Cl bond; the Si-H bond was preserved. Infrared and nuclear magnetic resonance studies of the reaction products showed, that these alpha, beta-unsaturated oxides add methyldichlorosilane with cleavage of the oxide ring at the least hydrogenated carbon atom, i.e. in a different order from the corresponding saturated ocides; the double bond is preserved. In the case of isoprene oxide, a partial 1.4-addition may also occur. Orig. art. has 2 tables and 2 graphs.

Card 1/2

L 17950-65
ACCESSION NR: AP5002565

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institute)

SUBMITTED: 24Apr63 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 007 OTHER: 002 JPRS

Card 2/2

ALBITSKAYA, V.M.; SHARIKOVA, I.Ye.; PETROV, A.A.

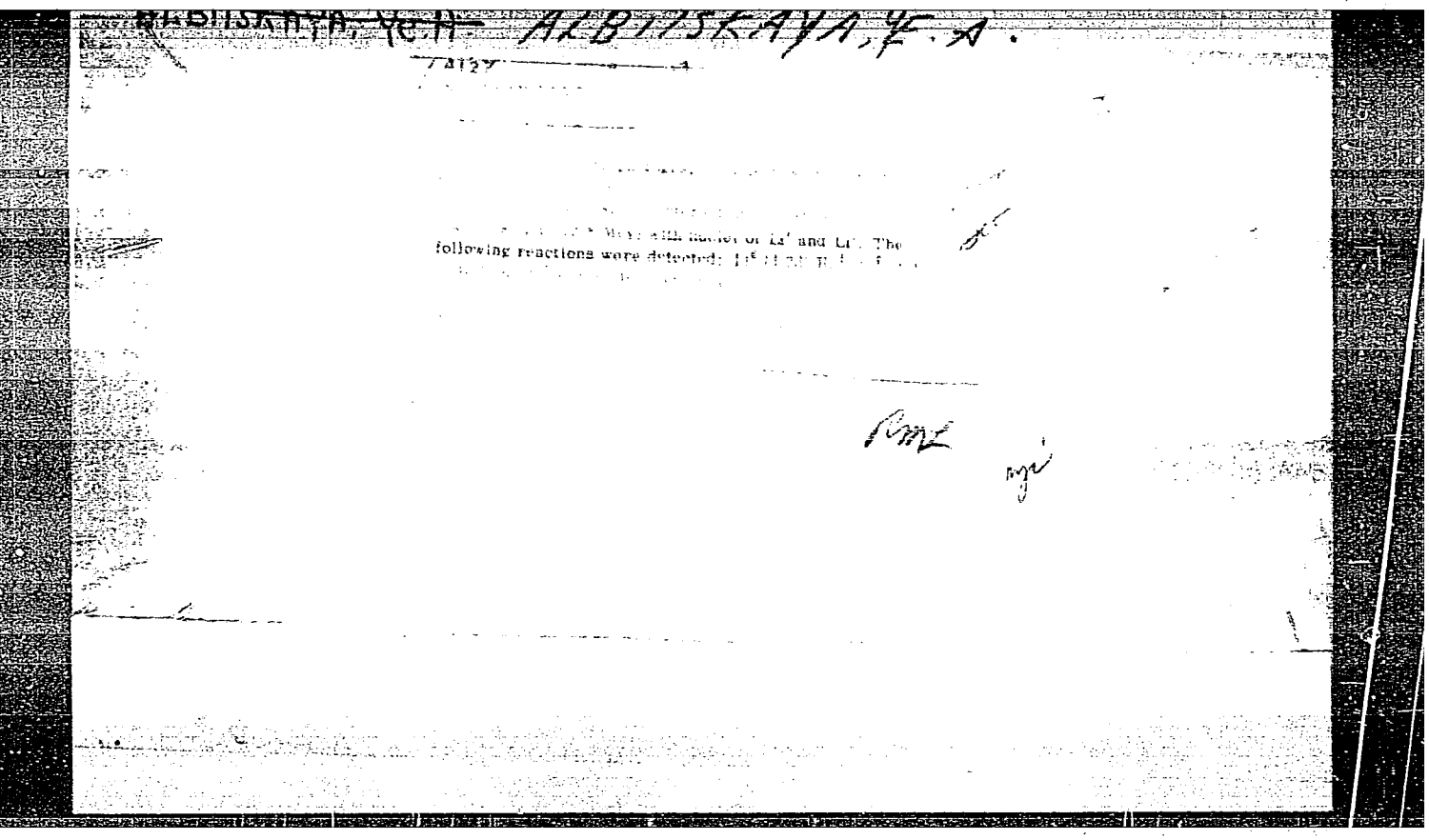
Correction of the letter to the editor about the addition of trialkylsilanes to unsaturated α-oxides. Zhur. ob. khim. 34 no.12:4117 D '64 (MIRA 18:1)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.

AL'BITSKAYA, V.M.; BRYSKOVSKAYA, A.V.

Chemistry of organic α-oxides. Part 24: Reaction of unsaturated α-oxides with acetylide and sodium vinylacetylide. Zhur.org.khim. 1 no.3:429-433 Mr '65. (MIRA 18:4)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.



following reactions were detected:

Al'bitskaya, Ye. A.

Category : USSR/Nuclear Physics - Structure and Properties of Nuclei C-4

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 5957

Author : Sokolov, Yu.L., Sulkovskaya, M.M., Karpushkina, E.T., Al'bitskaya, Ye.A.

Title : [redacted] of the Li^6 Nuclei

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 6, 1007-1012

Abstract : The photographic-plate method was used to study reactions involving the escape of several particles and occurring upon interaction of 13.8 Mev deuterons with nuclei Li^6 and Li^7. The lithium is introduced directly in the photographic emulsion, the thickness of which is greater than the range of the deuterons. Reactions Li^6 (d, 2d) He^4, Li^6 (d,d'pn) He^4, and Li^7 (d,td') He^4 were observed, and occured in two stages. The incident deuterons is scattered and excites the nucleus. The excited nucleus then breaks up into several other particles. The levels of the excited Li^6 nucleus (with T = 0) were determined for 2.2, 4.5 and 7.5 Mev.

Card : 1/1

~~AL'BITSKAYA, Ye.A.~~ AL'BITSKAJA, E.A.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1900
AUTHOR SOKOLOV, JU.L., SULKOVSKAJA, M.M., AL'BICKAJA, E.A., KARPUŠKINA, E.I.
TITLE The Levels of the Li^6-Nucleus
PERIODICAL Dokl. Akad. Nauk, 111, fasc. 6, 1219-1222 (1956)
Issued: 2 / 1957

By the method developed by JU.L.SOKOLOV et al. (Žurn. eksp. i teor. fis, 30, No 6, 1007 (1956)) the reactions occurring on the occasion of the interaction of fast deuterons with Li^6 and Li^7 nuclei were investigated. The lithium was introduced immediately into the emulsion layer of the ILFORD E-1 plates. These plates were then irradiated with (17,5±0,25 MeV deuterons in such a manner that their ranges were totally in the emulsion. Among the many reactions observed in the plates, the following were identified in Li^6 and Li^7:
$Li^6(d,2d)He^4$; $Li^6(d,d',p,n)He^4$, $Li^7(d,t,d')He^4$, $Li^7(d,t,p,n)He^4$.
The reaction $Li^6(d,2d)He^4$: Besides the levels at 2,2 and 4,5 MeV, there are levels that occur also at 5,9; 7,4 and 8,3 MeV. All these levels must have the isotopic spin zero because the products of the decay of the Li^6 nucleus are an α-particle and a deuteron.
The reaction $Li^6(d,d',p,n)He^4$: The value of Q here amounts to -3,7 MeV and therefore the excited Li^6-nucleus does not decay from the level at 2,2 MeV in the case under investigation. As the next level, that at ~ 4,5 MeV could be excited by the nonelastically scattered deuterons. However, the authors found no stars that belonged to this level. This is probably due to the short ranges of the particles produced on this occasion, which prevented the identification

AL'BITSKAYA, Ye. A., KARPUSHKINA, E.I., SOKOLOV, Yu.L., SULKOVSKAYA, M.M.

"Energy levels of Li^6 and He^5."

paper submitted at the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 November 1957.

YASHCHENKO, B.P.; AL'BITSKAYA, Ye.A.

Antibacterial therapy of patients with "lesser" forms of pulmonary tuberculosis under clinical conditions. Probl.tub. 38 no.4:46-51 '60. (MIRA 14:5)

(TUBERCULOSIS)

AL'BITSKAYA, YE. F.

AL'BITSKAYA, Ye.F.: "Material on the physiological-hygienic principles for the work shoes of girls participating in industrial machine-building schools." Khar'kov Medical Inst. Khar'kov, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhanava Letopis, No 17, 1956

USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41727.

Author : Albitskaya, [illegible]. F.
Inst : Not Given.
Title : On the Method of Graphic Registration of Conditioned Motor Reflexes.

Orig Pub: Byul. eksperim. biol. i meditsiny, 1956, 42, No 10, 79-80.

Abstract: A plan and structural description of the apparatus for the registration of conditioned motor reflexes, elaborated by the method of Ivanov-Smolenski, is described.

Card 1/1

AL'BITSKAYA, Ye.F.; GORKIN, Z.D., professor

Time reflex as an index of the state of the higher nervous activity in trade school students in connection with their industrial education [with summary in English]. Gig. i san. 22 no.1:43-46 Ja '57. (MIRA 10:2)

1. Iz kafedry gigiyeny truda Khar'kovskogo meditsinskogo instituta.

(REFLEX, CONDITIONED,
conditioned time reflex in students of vocational schools as higher nervous funct. test (Rus))
(SCHOOLS,
same)

AL'BITSKAYA, Ye.F., GORKIN, Z.D., KARMINSKIY, M.S., MIKHAYLOVSKAYA, YE.F. SNEGIREV, Ye.S.

Physiological and hygienic basis for the organization of stop training in machinery trade. Gig. i san. 23 no.9:35-38 S'58 (MIRA 11:11)

1. Iz kafedry gigiyeny truda Khar'kovskogo meditsinskogo instituta.
(INSDUSTRY AND OCCUPATIONS,
machinery indust. schools in Russia (Rus))
(SCHOOLS,
hygiene (Rus))

AL'BITSKAYA, Ye.F.; KRIVOVA, A.A.

Influence of single doses of ultraviolet irradiation on the higher nervous activity of animals. Zhur. vys. nerv. deiat. 11 no.4:759-762 Jl-Ag '61. (MIRA 15:2)

1. Chair of Labour Hygiene, Medical Institute, Kharkov.
(NERVOUS SYSTEM) (ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)
(CONDITIONED RESPONSE)

L 14968-63 EWT(l)/BDS/ES(a)/ES(b)/ES(c)/ES(k) AMD/AFFTC Pb-4
AR/K

ACCESSION NR: AP3003603 S/0247/63/013/003/0565/0571

AUTHOR: Al'bitskaya, Ye. F.; Krivova, A. A. 62 61

TITLE: Effect of repeated ultraviolet radiation on the higher nervous activity of white rats

SOURCE: Zhurnal vy*sshey nervnoy deyatel'nosti, v. 13, no. 3, 1963, 565-571

TOPIC TAGS: ultraviolet radiation, repeated dose, nervous system, conditioned reflex

ABSTRACT: Earlier studies revealed that single dose ultraviolet irradiation affects conditioned reflexes. Exactly this type of irradiation is used in medical treatment, which is why the effect of repeated ultraviolet irradiation on the higher nervous system is of particular interest. The motor-food conditioned reflex method (as developed by L. I. Kotlyarevskiy) was applied to the study of 45 male rats. The ultraviolet radiation source was a PRK-4 mercury-quartz tube with a 290-340 millimicron wave length. The skin of the rats' paws was irradiated in cycles of small 0.5, 0.1, and 0.05 biodoses and in large hypererythemic doses of 10, 5, and 1 biodoses

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in 5 to 6 exposure periods. The latent period and conditioned reflex values recorded on an electrokymograph served as an index to the responses. Conditioned reflex activity was studied before irradiation and 1, 6, 24, and 48 hrs after irradiation. Results show that a repeated 0.05 biodose improves the tone of the cerebral cortex, 0.1 biodose causes a temporary weakening of the excitatory process, and a 0.5 biodose has a certain inhibiting effect on the conditioned reflex activity expressed by a longer latent period and a decrease in the conditioned reflex value. 1.0 and 5.0 repeated biodoses produce similar changes in the higher nervous activity state which are characterized by fluctuation of positive conditioned reflex values, longer latent period, and in some cases weakened differentiation. Hypererythemic doses (on the order of 10 biodoses) sharply inhibit conditioned reflex activity apparently as a result of protective inhibition. In some cases complete inhibition of the unconditioned food reflex takes place. There is no evidence that the effect of ultraviolet irradiation on conditioned reflex activity is dependent on nervous system type. The authors suggest that the products formed by ultraviolet irradiation in the skin may stimulate not only the receptors but also the nerve centers. No other conclusions are drawn.

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L 14968-63
ACCESSION NR: AP3003603

Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Kafedra gigiyeny* truda Khar'kovskogo meditsinskogo instituta (Department of Labor Hygiene of the Kharkov Medical Institute)

SUBMITTED: 31Jul62 DATE ACQ: 23Jul63 ENCL: 00

SUB CODE: AM NO REF SOV: 006 OTHER: 000

Card 3/3

ACC NR: AP6018714 SOURCE CODE: UR/0240/66/000/006/0017/0020

AUTHOR: Al'bitskaya, Ye. F.; Gorkin, Z. D.

ORG: Department of Labor Hygiene, Kharkhov Medical Institute (Kafedra gigiyeny truda Khar'khovskogo meditsinskogo instituta)

TITLE: The effect of ultraviolet irradiation on the functional condition of basic cerebral nervous processes in man

SOURCE: Gigiyena i sanitariya, no. 6, 1966, 17-20

TOPIC TAGS: ultraviolet radiation, cerebral cortex, human physiology, central nervous system, conditioned reflex, stimulus

ABSTRACT: The effect of ultraviolet radiation on the higher nervous activity of 15—16-yr-old technical school students was studied. The motor-speech method of Ivanov-Smolenskiy and the method of directed speech reactions (association test) were used to estimate the function of both signal systems (Pavlov). The radiation source was a PRK-2 mercury-quartz lamp with a wavelength of 136—400 mu. Biodoses were determined for each student, since individual sensitivity to UV radiation varies widely. Doses were given singly (1 1/2, 1, 1/2 biodose) or repeatedly (1 1/2 and 1 biodose). The subjects, placed 75 cm from the source, were exposed (to the waist) to UV rays simultaneously from two sides. Indices of higher nervous activity employed included the accuracy of conditioned reflexes, the length of the latent period of

Card 1/2 UDC: 615.831.76-039.71-07:612.825.1

L 39830-66
ACC NR: AP6018714

motor and speech reactions, the quality of responses, absence of responses or repetition of words, and errors in pressing buttons. Ten students were studied in 500 experiments with repeated irradiation with 1 1/2 biodose (237.9 $uv/cm^2/min$). Experiments showed no change in the accuracy of conditioned reflexes or in the length of the latent period of a motor reaction to a word stimulus. However, repeated irradiation with this dose improved the functional condition of the second signal system in the following ways: the latent period of the speech reaction decreased in length, response reactions improved, and the number of avoidance reactions dropped. The incompleteness of this improvement in the functional condition of the second signal system was demonstrated by the number of repetitive or erroneous responses. It was concluded that this second signal system, based on speech, is more excitable than the first system (sensory), since it can be stimulated by ultraviolet irradiation. [JS]
Orig. art. has: 4 tables.

SUB CODE: 06/ SUBM DATE: 19Jul65/ ORIG REF: 007/ ATD PRESS: 5109

Card 2/2 UDC 5

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2. USSR (600)

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9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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Physiological and hygienic basis for an effective program of industrial training for locksmiths in trade schools. Gig.i san. no.12: 18-22 D '53. (MLRA 6:12)

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(GLOMANGIOMA, case reports
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[Materials on the problem of heterotopic bone formation and the stimulation of osteogenesis; clinical and experimental investigation] Materialy k voprosu o geterotopicheskom obrazovanii kosti i stimuliatsii kosteobrazovaniia; klinicheskoe i eksperimental'noe issledovanie. Tomsk, Izd-vo Tomskogo univ., 1959. 246 p. (MIRA 13:4)
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(BLADDER transpl)
(OSSIFICATION)
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[Electric protection from corrosion of underground metallic structures] Elektricheskaia zashchita podzemnykh metallicheskikh sooruzhenii ot korrosii. Baku, Azneftizdat, 1954. 262 p. (MLRA 8:4)
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1. Ispolnyayushchiy obyazannosti glavnogo inzhenera proyekta Vsesoyuznogo gosudarstvennogo instituta po proyektirovaniyu elektrifikatsii sel'skogo khozyaystva (for Al'bitskiy). 2. Starshiy inzhener Vsesoyuznogo gosudarstvennogo instituta po proyektirovaniyu elektrifikatsii sel'skogo khozyaystva (for Shekhter). 3. Starshiy tekhnik Vsesoyuznogo gosudarstvennogo instituta po proyektirovaniyu elektrifikatsii sel'skogo khozyaystva (for Polshkov).

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Al'bitskiy, V. A. and Shayn, P. F. "Observations of small planets," Izvestiya Krymsk. astrofiz. observatorii, Vol. II, 1948, p. 134-35

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From: Monthly list of Russian Accessions, Dec. 1951, Vol. 4, No. 9, p. 25
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H. D. 211433

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Vol. 4 1949, pp. 144-148

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Eclipsing variable 220. 1935 Cephei. Astron. tsir. No. 128, 1952.

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New variable SPZ 1226 Cephei. Astron.tsirk. no.170:9-10 '56.
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1.Tartuskaya astronomicheskaya observatoriya.
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ALBO, Kh. [Ya.]

Observations of occultations at the Tartu Observatory. Astron.tsirk. no.170:26-27 '56. (MLRA 9:10)

1.Tartuskaya Astronomicheskaya observatoriya.
(Occultations)

ALBO, Kh.

Observations of lunar occultations of stars at the Tartu Astronomical Observatory of the Academy of Sciences of Estonia. Astron.tsir. no.180:22-23 My '57. (MIRA 13:4)

1. Tartuskaya astronomicheskaya observatoriya AN ESSR.
(Occultations)

ALBO, Kh. [Albo, H.]

Preliminary elements of the eclipsing variable V 382 Cygni. Per. zvezdy 12 no.3:240-242 Mr '58. (MIRA 13:4)

1. Tartuskaya astronomicheskaya observatoriya AN ESSR.
(Stars, Variable)

ALBO, Kh.

Determining epochs of variable stars. Per.zvezdy 12 no.6:427-430 Je '59. (MIRA 13:9)

1. Tartuskaya astronomicheskaya observatoriya AN Estonskoy SSR.
(Stars, Variable)

S/269/63/000/004/002/030
A001/A101

AUTHOR: Albo, Kh.

TITLE: Photoelectric observations of Nova Herculi 1960

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 4, 1963, 24, abstract 4.51.251 ("Publikatsiya Tartusk. astron. observ.", 1961, v. 33, no. 5 - 6, 467 - 479, English summary)

TEXT: Observations were made with a 20-cm reflector. A ФЭУ -19 (FEU-19) photomultiplier served as a radiation receiver. Three stars near the Nova were selected as comparison stars. The 110 Her was used for determining the zero-point. The mean square error of one measurement was rather large for electro-photometric observations: this was apparently due to inclusion into the results of observations made during the periods of poor atmospheric transparency. The color index of Nova, B - V = +0.31 (weighted mean), when it was brighter than 8^m, which is inconsistent with its reddish color observed visually; this was due, apparently, to insensitivity of the photometer to Hα rays. In view of inaccuracy in determinations of the Nova color, luminosity measurements in the B,

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Photoelectric observations of Nova Herculi 1960

V system were not conducted. Luminosity variations are represented by the formula: $m = 6.29 + 2.58\ (\lg t - 1.20)$ for $8^d < t < 28^d$ (t is time passed from the beginning of the explosion). For $28^d < t < 87^d$, $m = 8.01 + 3.50\ (\lg t - 1.67)$. For $22^d < t < 28^d$ luminosity was decreasing more rapidly. The results of Nova observations in the period JD 2437005-085 and the map of comparison stars are presented.

R. Botsula

[Abstracter's note: Complete translation]

Card 2/2

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SO: LETOPIS' NO. 35, 1949

ALBOIU M

SURNAME, Given Names

2

Country: Rumania

Academic Degrees:

Affiliation: "Pasteur" Institute of Serums and Vaccines (Institutul de Seruri si Vaccinuri "Pasteur"), Bucharest.

Source: Bucharest, Stiinta si Tehnica, No 8, Aug 1961, pp 26-27.

Data: "Lyophilization."

Authors:

ALBOIU, M., Veterinarian.
BIRNAURE, Gh., Veterinarian.

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ALBOIU, M.
MD

RUMANIA

"Pasteur" Institute, Bucharest (Institutul "Pasteur", Bucuresti).

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Co-authors:

POPESCU, A., MD, "Pasteur" Institute, Bucharest.
BIRNAURE, Gh., MD, "Pasteur" Institute, Bucharest.

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(GONADTROPINS blood) (BLOOD PRESERVATION)

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The drying up of the rivers in the Cris Basin. Studii hidrol 3:15-23 '62.

AL'BOKHA V.P.; GUBA, A.Ya.; ZELENOV, A.B., kand.tekhn.nauk; KOKOSHNIKOV, G.A.

Noncontact gas-air ratio controller in the soaking pits of a blooming. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 16 no.8:10-12 '63. (MIRA 16:10)

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Improving the performance of soaking pits. Metallurg 10 no.12: 32-34 D '65. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut i Kommunarskiy metallurgicheskiy zavod.

ALBOROV, Z.B.

KUTUZOV,D.S., gornyy inzhener; ALBOROV,Z.B., gornyy inzhener; BABICH,I.A., gornyy tekhnik

Improving the system of a mass breaking down of ore. Gor.zhur. no.5:6-8 My '55. (MLRA 8:7)

(Mining engineering)

AL'BOROV, Z.B., gornyy inzhener.

Technical and economic indexes of cutter-bit boring in the Sokol'nyi mine. Gor.zhur.no.9:32-34 S '56. (MLRA 9:10)

1.Leninogorskiy polimetallicheskiy kombinat.
(Leninogorsk--Boring)

ALBOROV, Z.B.

Working thin ore bed sections at the "Sokol'nyi" mine by means of sublevel caving. Izv. AN Kazakh. SSR. Ser. gor dela no.2:26-30 '58.
(MIRA 12:10)
(Kazakhstan--Mining engineering)

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Improving boring with sinker dirlls at the Leninogorsk Combine. Gor.zhur. no.3:36-38 Mr '60. (MIRA 14:5)

1. Leninogorskiy polimetallicheskiy kombinat.
(East Kazakhstan Province—Rock drills)

KUTUZOV, D.S., gornyy inzh.; ALBOROV, Z.B., gornyy inzh.; BABICH, I.A., gornyy tekhnik

Practice of breaking of ore with chamber charges in the Leninogorsk Mine. Gor. zhur. no.4:13-15 Ap '60. (MIRA 14:6)

1. Leninogorskiy polimetallicheskiy kombinat.
(Blasting)

ALBOROV, Z.B.

Methods of determining the minimum block height in systems of forced sublevel caving in the "Sokol'nyi" deposit. Trudy Inst. gor. dela AN Kazakh.SSR 4:21-26 '60. (MIRA 13:9)
(Altai Mountains--Mining engineering)

USPANOV, K.Ye.; ISAKOV, V.A.; MAL'CHENKO, Yu.I.; ALBOROV, Z.B.; GALIMZHANOV, K.G.; KUTUZOV, D.S.

Systems of mining thin and medium thickness sections of the Sokol'noye deposit. Trudy Inst. gor. dela AN kazakh. SSR 7:38-48 '60. (MIRA 14:6)
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ALBOROV, Z.B.

Electric blasting without misfire by parallel-pair connection of detonators. Trudy Alt. GMNII AN Kazakh. SSR 9:163 '60.
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[Highly productive systems of mining thick hard ore deposits] Vysokoproizvoditel'nye sistemy razrabotki moshchnykh mestorozhdenii krepkikh rud. Moskva, Gos.nauchno-tekhn.izd-vo litry po gornomu delu, 1961. 417 p. (MIRA 15:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Agoshkov).
(Mining engineering)

AL'BOROV, Z.B., gornyy inzhener; YUSHKO, S.P., inzhener-mekhanik

Recent developments by the special design section of the Leninogorsk Combine. Gor.zhur. no.5:7[illegible]-72 My '61. (MIRA 14:6)

1. Leninogorskiy kombinat.
(Rock drills)

ALBOROV, Z.B., kand.tekhn.nauk

Comparison of drilling with a roller bits and with sinker drills in hard rocks. Gor. zhur. no.11:42-45 N '61. (MIRA 15:2)

1. Glavnyy inzh. Kavkazgiprotsvetmeta, g. Ordzhonikidze.
(Boring machinery)

ALBOROV, Z.B.; YUSHKO, S.P.

Drilling operations in the mines of the Leninogorsk Combine. Vzryv. delo no.46/3:139-149 '61. (MIRA 15:1)
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ALBOROV, Z.B.; YUSHKO, S.P.

New machines for drilling deep slim holes in hard rock. Vzryv. delo no.46/3:150-160 '61. (MIRA 15:1)
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AL'BOSHCHIN, Grigoriy Aleksandrovich; LEPSKAYA, Margarita Petrovna; MAKHIN, V.N., redaktor; GRIGOR'YEVA, A.I., redaktor; ZHURAVLEV, A.S., tekhnicheskiy redaktor.

[Short manual for the amateur driver of the "Moskvich" and "Pobeda" automobiles] Kratkii spravochnik shofera-liubitelia. Po avtomobiliam "Moskvich" i "Pobeda." Moskva, Izd-vo Dosaaf, 1954. 173 p. (MLRA 8:2)
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